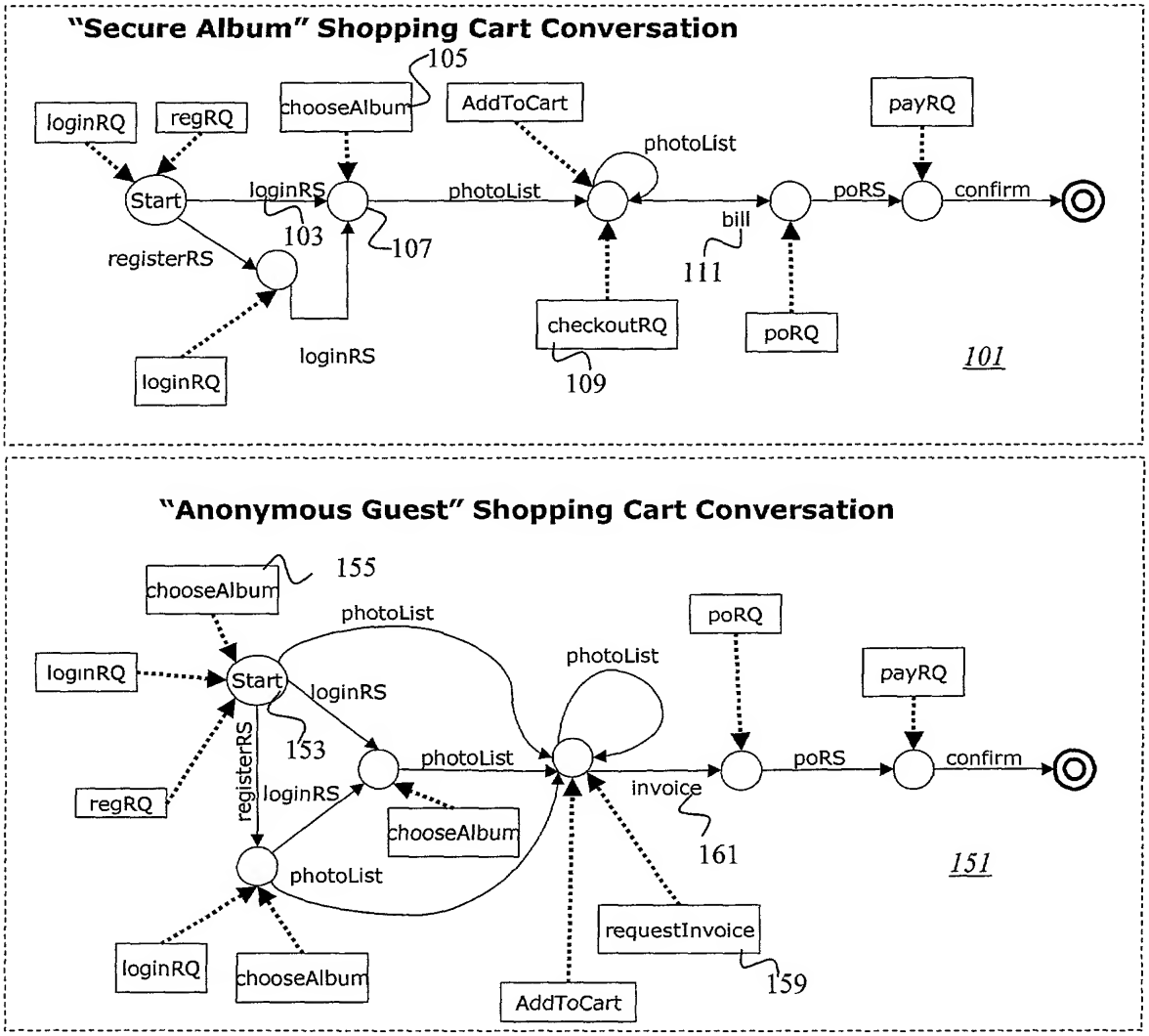
"Secure Album" Shopping Cart Conversation
105
loginRQ
regRQ
chooseAlbum
AddToCart
payRQ
photoList
Start
loginRS
photoList
poRS
confirm
bill
103
107
111
registerRS
checkoutRQ
poRQ
loginRS
loginRQ
109
101
"Anonymous Guest" Shopping Cart Conversation
155
chooseAlbum
photoList
poRQ
loginRQ
Start
loginRS
photoList
payRQ
153
registerRS
photoList
poRS
confirm
regRQ
loginRS
invoice
chooseAlbum
161
151
photoList
requestInvoice
loginRQ
chooseAlbum
159
AddToCart

FIG. 1

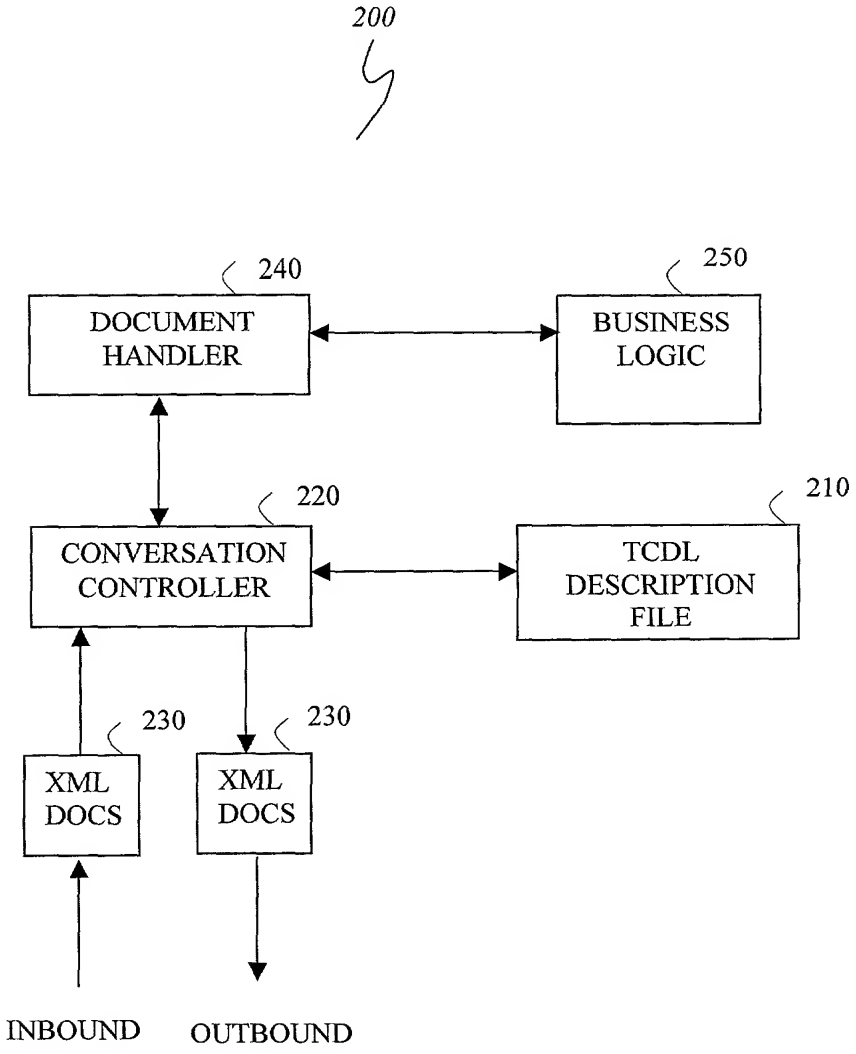
200
240
DOCUMENT HANDLER
250
BUSINESS LOGIC
220
CONVERSATION CONTROLLER
210
TCDL DESCRIPTION FILE
230
XML DOCS
230
XML DOCS
INBOUND
OUTBOUND

FIG. 2

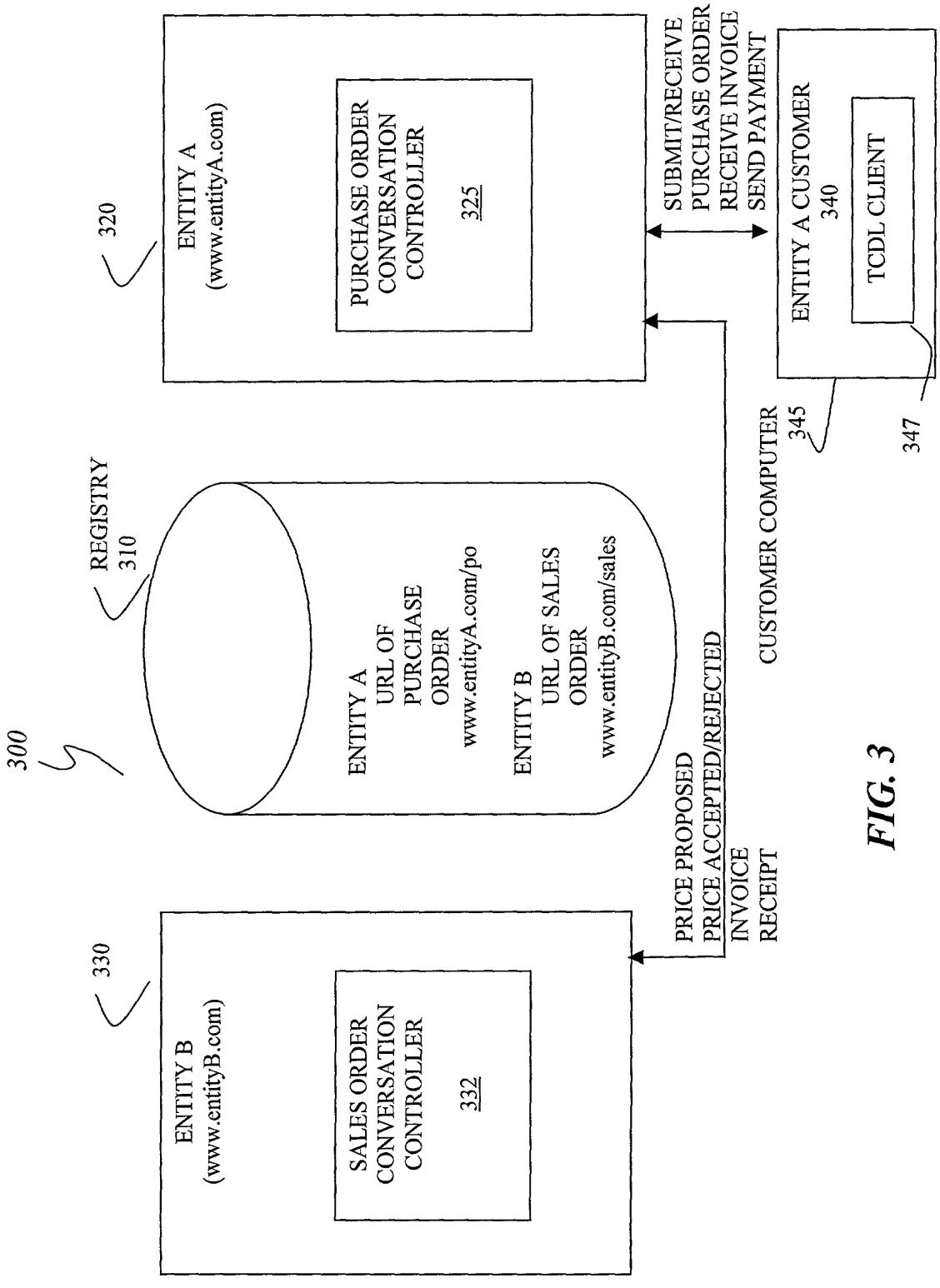
300
REGISTRY
310
ENTITY A
URL OF
PURCHASE
ORDER
www.entityA.com/po
ENTITY B
URL OF SALES
ORDER
www.entityB.com/sales
320
ENTITY A
(www.entityA.com)
PURCHASE ORDER
CONVERSATION
CONTROLLER
325
330
ENTITY B
(www.entityB.com)
SALES ORDER
CONVERSATION
CONTROLLER
332
SUBMIT/RECEIVE
PURCHASE ORDER
RECEIVE INVOICE
SEND PAYMENT
PRICE PROPOSED
PRICE ACCEPTED/REJECTED
INVOICE
RECEIPT
CUSTOMER COMPUTER
345
ENTITY A CUSTOMER
340
TCDL CLIENT
347

FIG. 3

400

```
<xsl:stylesheet
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
version="1.0">                                    411

<xsl:template match="shopping_list">
  <xsl:element name="{name()}">
  <xsl:apply-templates select="grocery"/>
  </xsl:element>
</xsl:template>                          431      413

<xsl:template match="grocery">
  <xsl:element name="{name()}">                                    433
    <xsl:apply-templates select="product"/>
    <xsl:apply-templates select="qty"/>
    <xsl:apply-templates select="unit_price"/>

    <xsl:element name="extended_price">                      435
      <xsl:variable name="extension" select="
                                        unit_price * qty "/>
      <xsl:value-of select="$extension"/>
    </xsl:element>

  </xsl:element>
</xsl:template>

<xsl:template match="product | qty | unit_price">
  <xsl:element name="{name()}">
    <xsl:value-of select="."/>
  </xsl:element>
</xsl:template>


</xsl:stylesheet>
```

401 403 405

FIG. 4